





Salt Accumulation in Central Valley

- Recent analysis indicate greater than 15.5 million tons per year of salt are brought into or mobilized in the Central Valley
- By 2030 this will increase by over 1 million tons per year
- Impacts will result in over \$1Billion per year in 2030



Water/Salinity Players

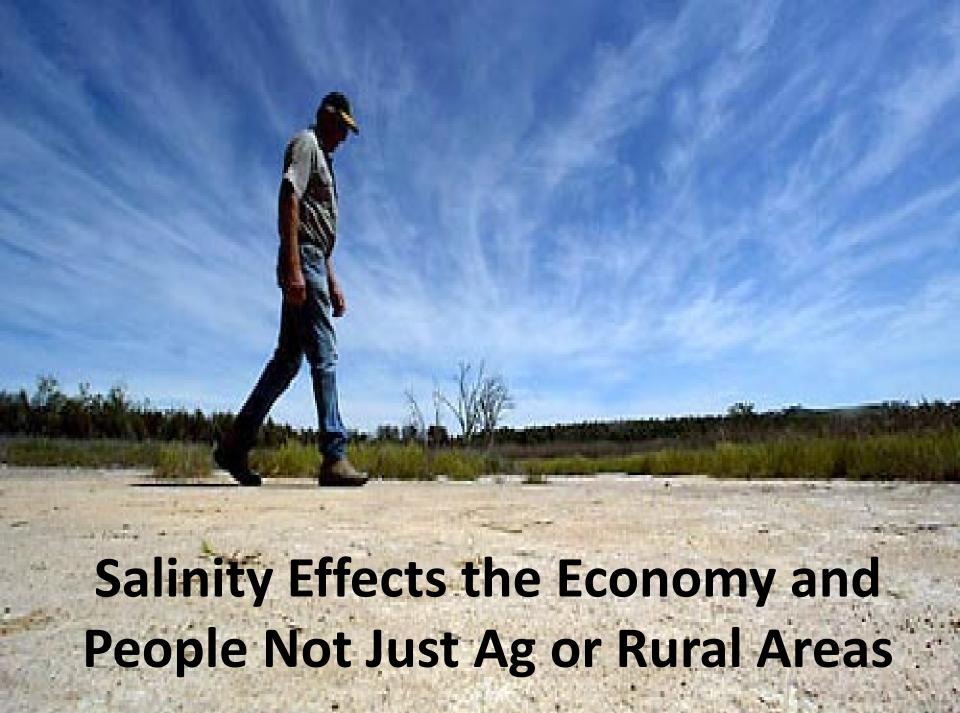
Wastewater Treatment

Water Providers

Public Benefit

Consumptive Users

All must be engaged in the solutions



Which person is not a candidate for president in 2008?

- 1 Hillary Clinton 8%
- 2 Barack Obama

0%

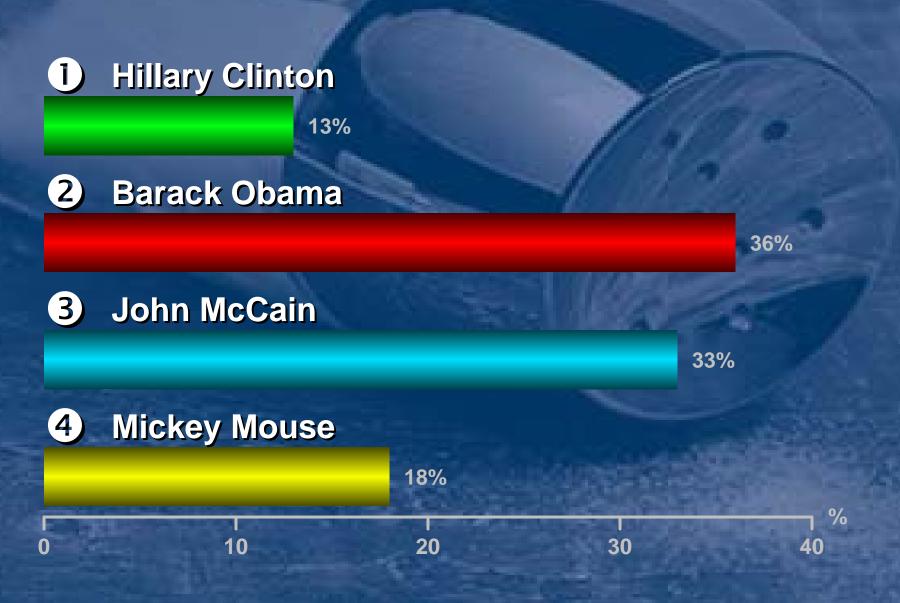
3 Arnold Schwarzenegger

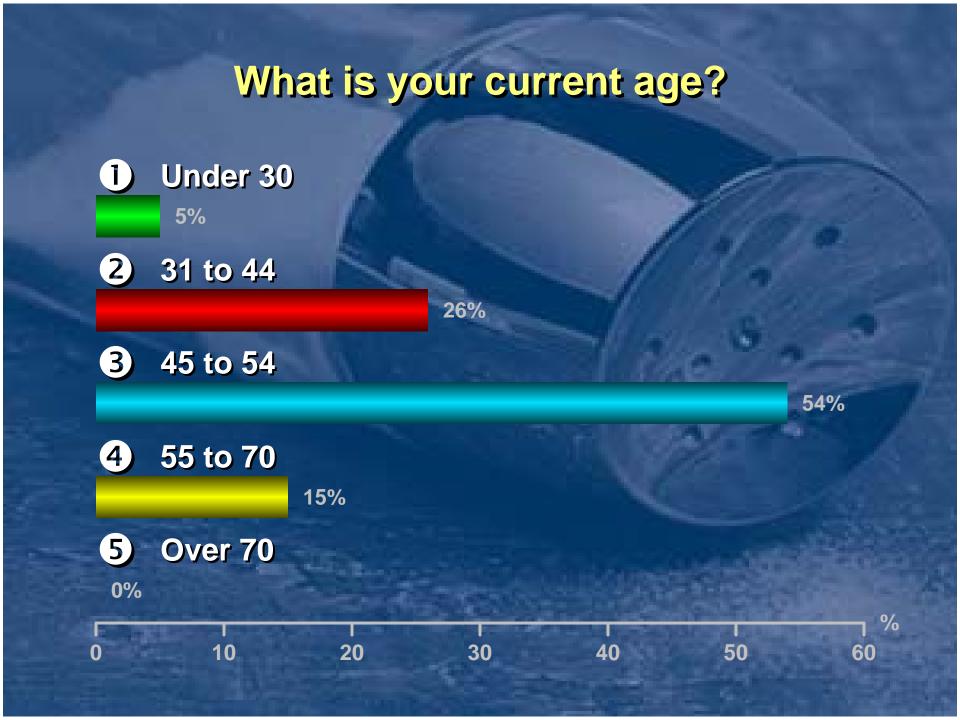
4 John McCain



92%

Who do you think will be the next president?





In what area do you work?



- **2** Government State or Federal
 - 13%
- 3 Agriculture

8%

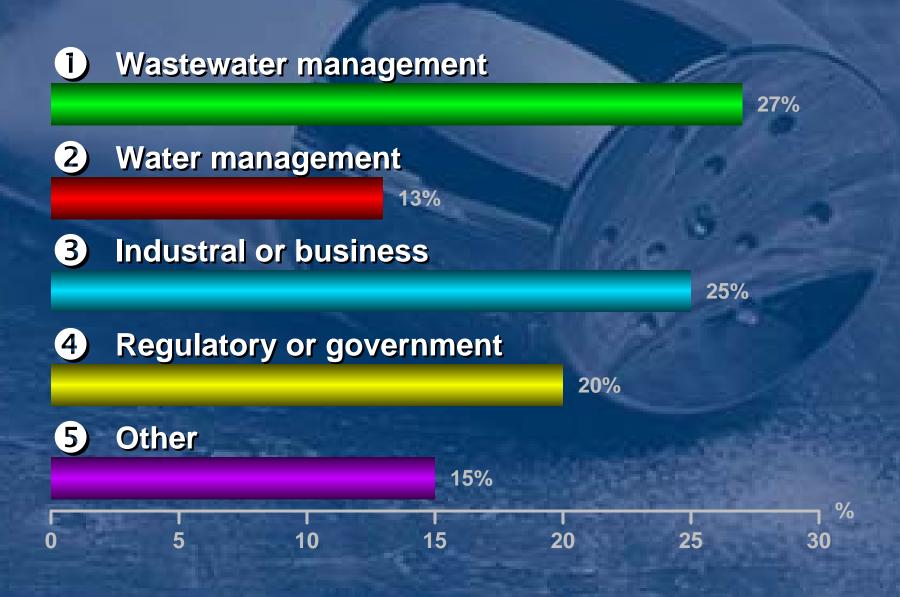
4 Manufacturing/Business

31%

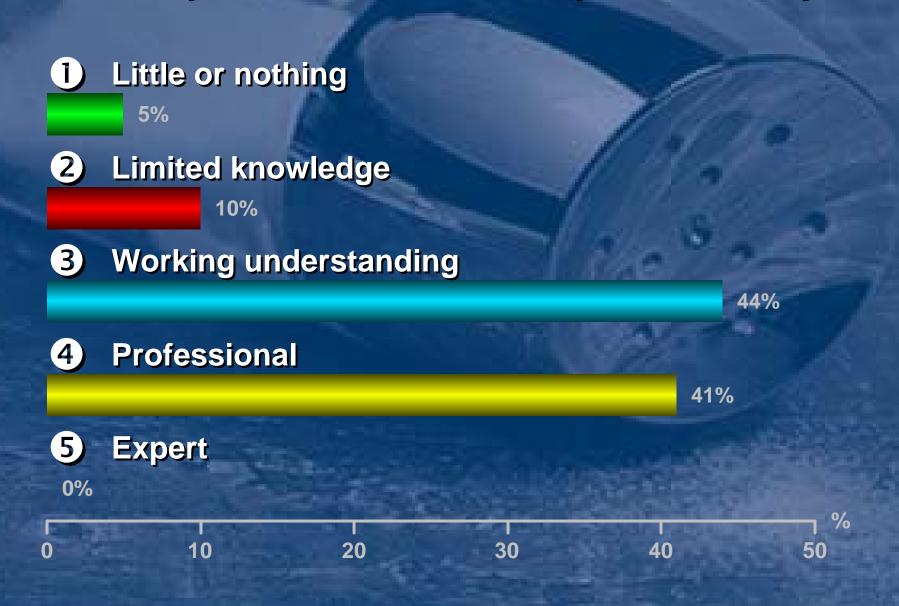




What role do you serve related to salinity?

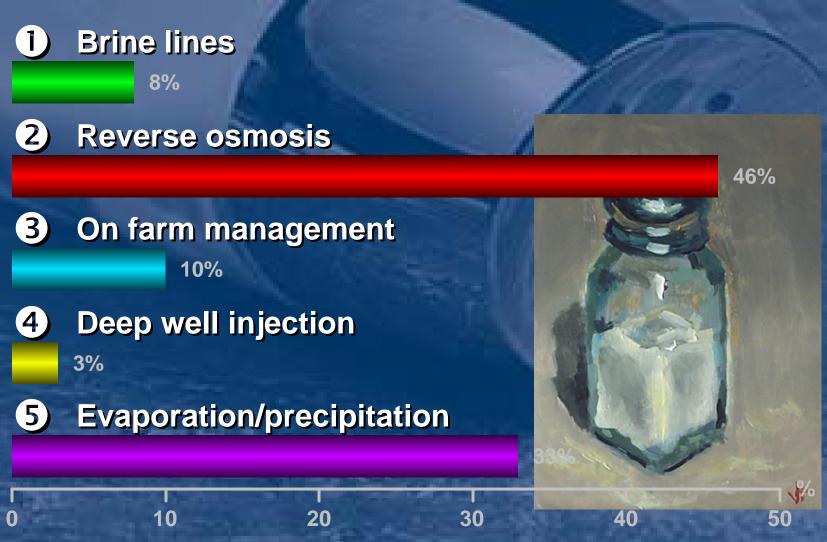


What did you know about salinity before today?





Which salt management option do you know the most about?



Options

- Stack it up in piles?
- Give it to your relatives who visit to take home?
- How about some creative ideas you think are more likely?

Brine lines are NOT used for?

- 1 Export of salt from a basin 3%
- 2 Industrial brine management

18%

3 Regional programs

13%

4 Improving drinking water quality

5 Disposal of untreated Ag drainage



Which statement is NOT true about reverse osmosis treatment

- 1 Uses electricity
 12%
- 2 Requires further brine management
- 3 Is exotic technology

12%

- 4 Depends on the water source
- 5 May be costly



62%

Which is NOT true about On-farm water management and reuse?

1 Reuses water more than once

15%

0%



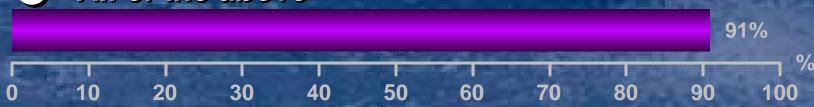
Eliminates the salt from the system

4 Can provide added water efficiency



Which statement is correct about salt storage and regional distributed management

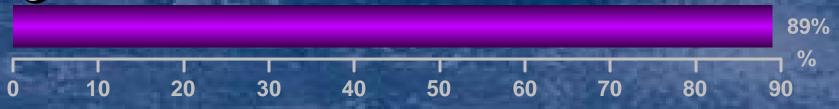
- 1 Could be done faster than basin wide solutions
 3%
- 2 Could allow regional economic development 3%
- 3 May facilitate material reuse and marketing
- 4 Requires leaders in each area or region 3%
- 5 All of the above



Who do you think should pay to manage salts?



- 2 Businesses
- 0%
- **3** Government
- 3%
- 4 Users of salt
- 8%
- 5 All of the above



Which is most true about drainage as it has been studied in the valley

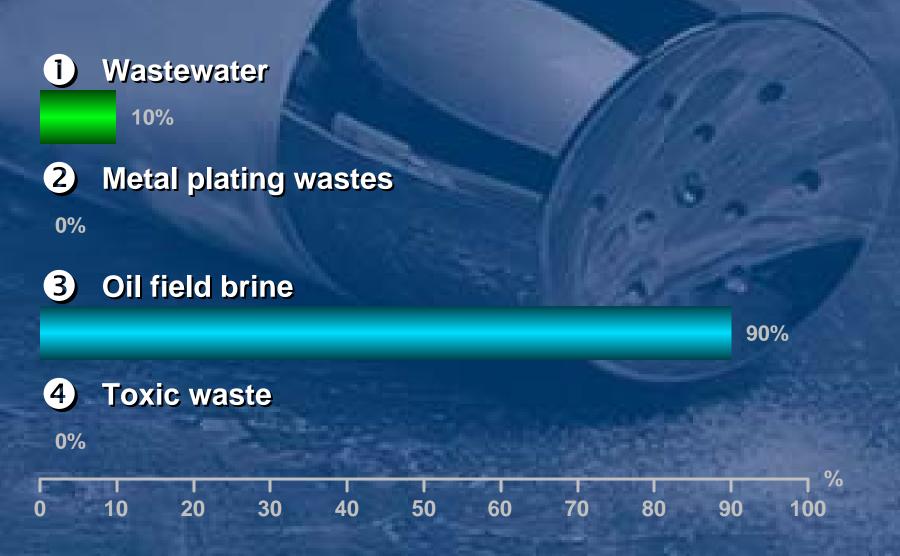
- 1 Related to agricultural irrigation
 9%
- 2 Complicated by other non-salt constituents

 0%
- 3 Not completed leaving much salt in the valley 0%
- 4 Complicated by political issues
- 5 All of the above

3%



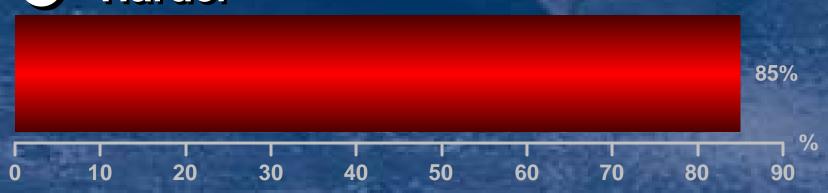
Deep well injection places concentrated brine below the active aquifer and is commonly used for?



Growth will make salt management

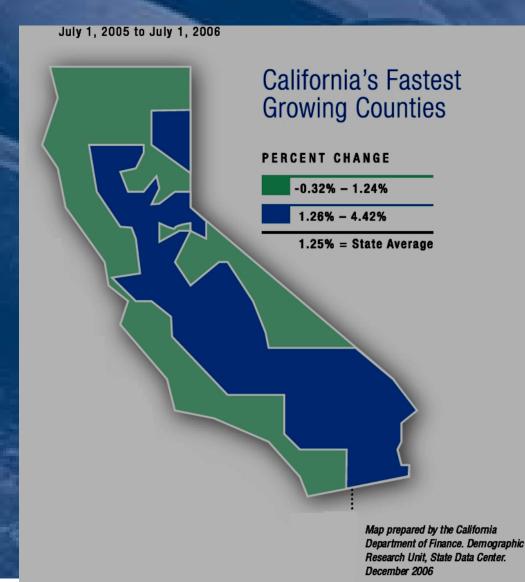






Growth as an Answer

- If we are committed and prepared can the same growth that increased salts provide the solutions?
- If growth does not pay will current residents and Businesses be able to fund the costs?



Market or Non-regulatory Salinity Controls

1) Uses the power of economic incentive

2 Allows creativity and unique solutions

50%

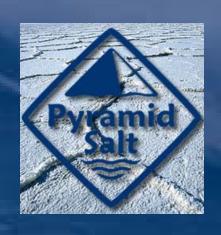
3 Removes salt at the most efficient locations

13%

4 Requires regulatory oversight



Market Solutions









Banking or credits could be a method for financing salt management efforts if the system

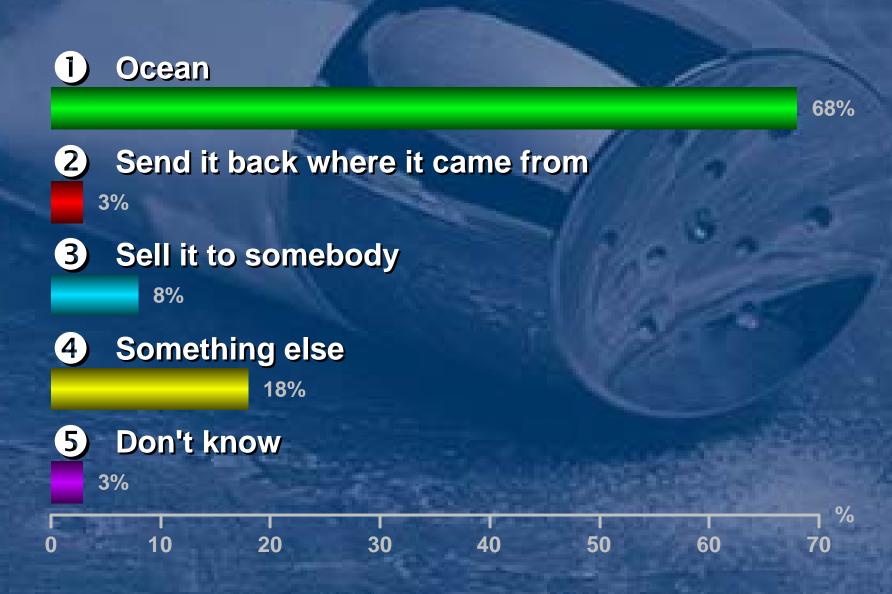
Could be designed and implemented

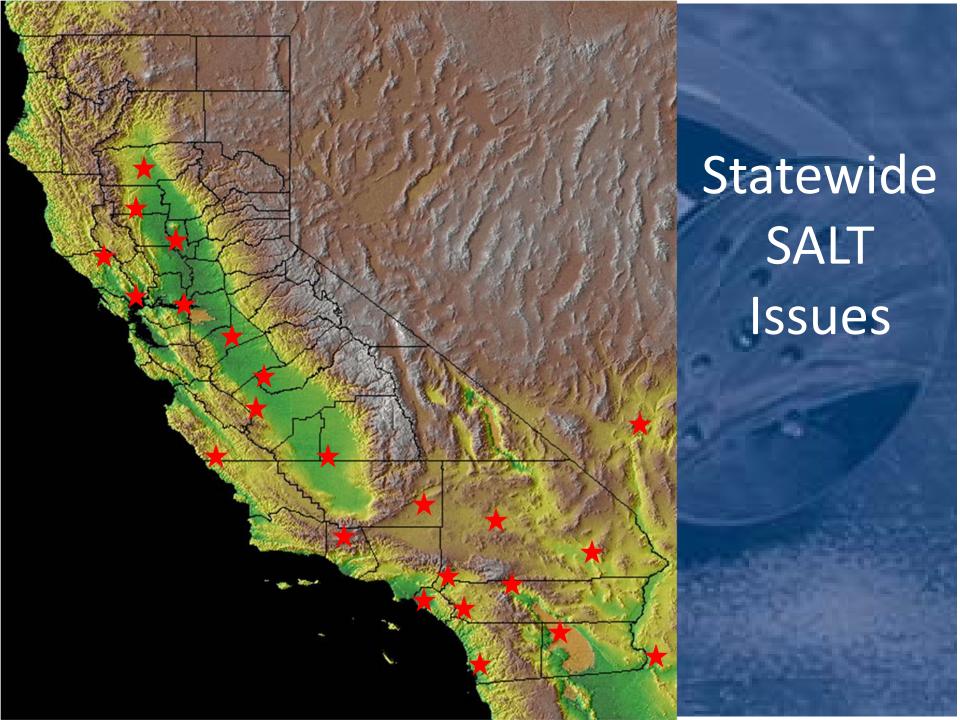
57%

2 Results in balancing salt in and out of the region

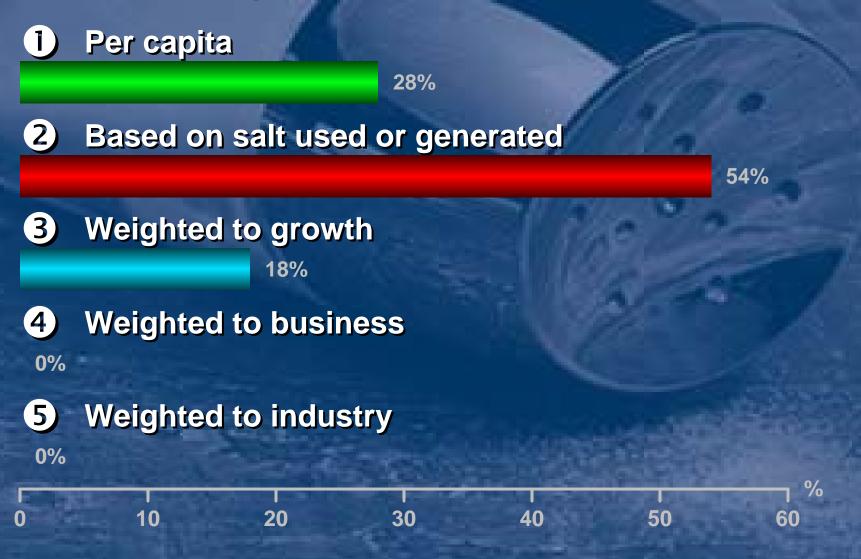


Where should the salt go?



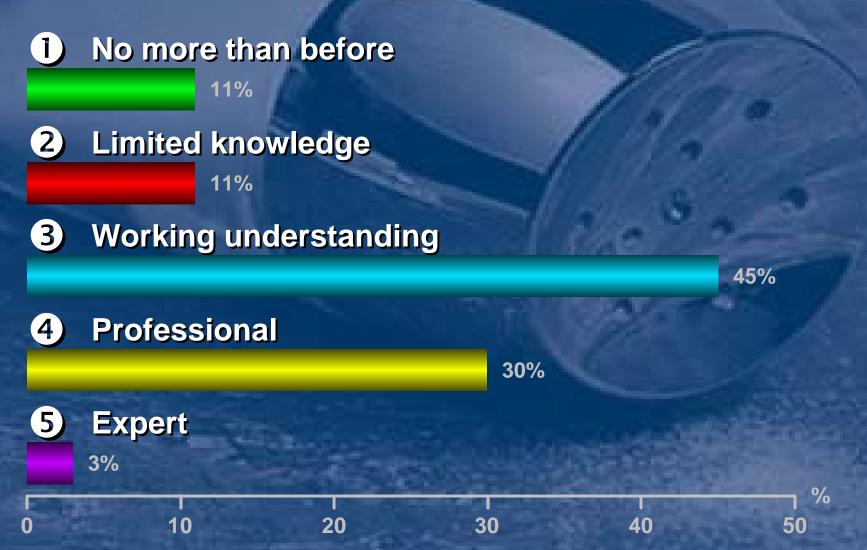


How do you think the cost of salinity management should be allocated?





How much do you understand about Salinity after this workshop?



Where do additional salts come from in the CV?



2 Water

0%

0%

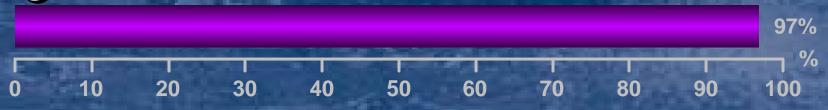
3 Agriculture

0%

4 Residents

3%

5 All of the above



I think that salinity is a long term chronic problem



I don't think the issues related to salt are too serious now

Strongly disagree

46%

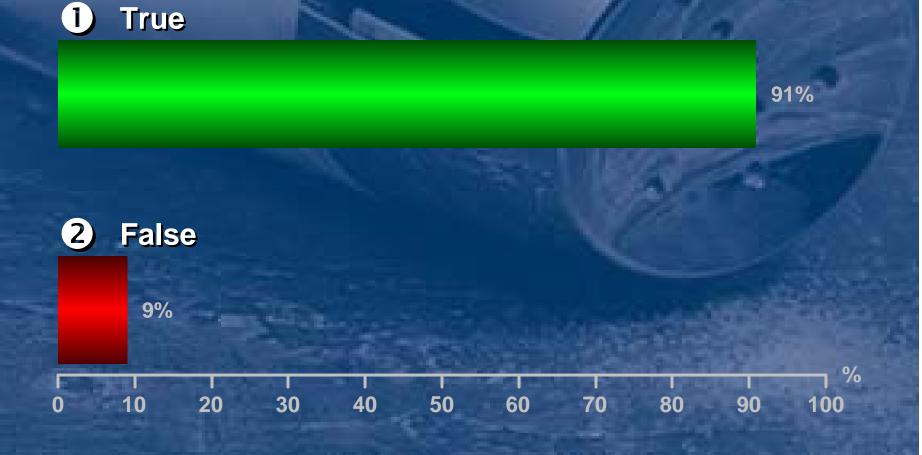
2 Somewhat disagree

24%

- 3 It will be a serious issue but it will be in the distant fut
- 4 Technology will likely fix it cheaply so no worries
 3%
- 5 Growth and future development will fix it



I feel that salinity may impact future growth and economic development of the valley



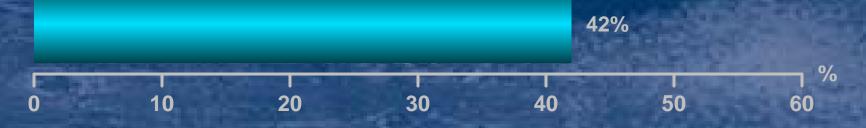
How much did you learn?

1 Not much, I was sleeping
3%

2 Some, I am aware of the issue now

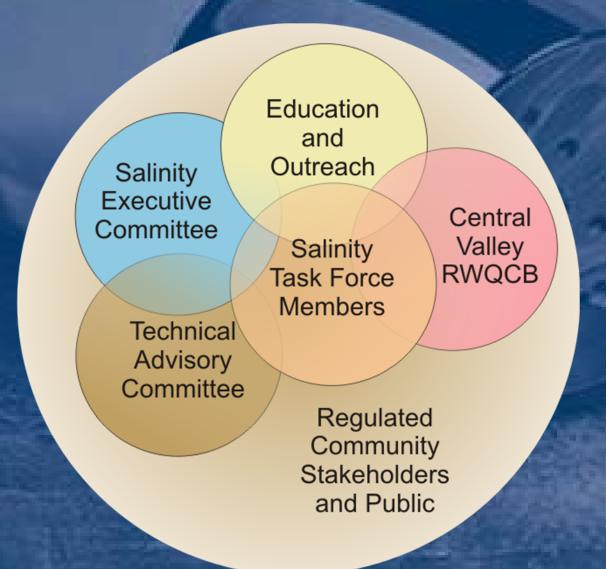
55%

3 A lot, I learned things I can do or think about





Can New Groups be Organized?



Task Force or Cooperative Stakeholder Group

Central Valley RWQCB Salinity Task Force Members Executive Committee

Technical Studies Science

Economic Feasibility

Planning and Monitoring Education and Outreach

Acts as Coordinator for Regional Groups

